

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 11072871  
PUBLICATION DATE : 16-03-99

APPLICATION DATE : 27-08-97  
APPLICATION NUMBER : 09246221

APPLICANT : KONICA CORP;

INVENTOR : KURACHI IKUO;

INT.CL. : G03C 1/76 G03C 1/047 G03C 1/32 G03C 1/95

TITLE : SILVER HALIDE PHOTOGRAPHIC SENSITIVE MATERIAL AND POLYMER MATTING AGENT

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a silver halide photographic sensitive material excellent in photographic performance, dryability, conveyability and rapid processability in automatic development processing by incorporating fine particles of a multivalent metallic salt of alginic acid into the protective layer of a silver halide photographic sensitive material.

SOLUTION: Fine particles of a multivalent metallic salt of alginic acid are incorporated into the protective layer of a silver halide photographic sensitive material with at least one photosensitive silver halide emulsion layer art tire substrate. The alginic acid is one of polysaccharides contained in seaweed and is a dehydration polymer of mannuronic acid and glucuronic acid as an isomer of mannuronic acid. The alginic acid is obtd. by subjecting seaweed to extraction by carbonation and further treating the resultant extract with hydrochloric acid. The multivalent metallic salt has a structure formed by crosslinking the alginic acid with ions of the multivalent metal and unlike the alginic acid the salt is insoluble in water. The multivalent metal is preferably an alkaline earth metal, in particular calcium.

COPYRIGHT: (C)1999,JPO